

Environmental Science and Policy, MS

The Master of Science in Environmental Science and Policy program emphasizes a broadly interdisciplinary and synthetic approach that integrates knowledge in the environmental sciences (conservation biology, climate change, fisheries science, ecosystem function, biodiversity, restoration ecology) with the social sciences (policy, economics, sociology, political science, and development) and humanities (environmental history, philosophy, and ethics). The goal of the program is to equip professionals with substantive breadth in knowledge and skills at the intersection of environmental science and policy. The program focuses on training students to think critically about the underlying causes of environmental problems and understanding the reciprocal relationships between coupled human-natural ecosystems and the interconnections between social and technological innovations. The program explores practical approaches and potential solutions that decision makers need to evaluate in policy debates related to promoting environmental sustainability.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Requirements

Code	Title	Hours
Seminars		
PPUA 6101	Environmental Science and Policy Seminar 1	4
ENVR 6102	Environmental Science and Policy Seminar 2	4
Skills Courses		
Complete 2 courses from the following. At least one course needs to be taken from the College of Science Skills Course List and one course from the College of Social Sciences and Humanities Skills Course List.		8
<i>College of Science Skills Course List</i>		
EEMB 5130	Ecological Dynamics	
ENVR 5150	Climate and Atmospheric Change	
EEMB 5522	Experimental Design Marine Ecology	
ENVR 5210	Environmental Planning	
ENVR 5240	Sedimentary Basin Analysis	
ENVR 5260	Geographical Information Systems	
ENVR 6500	Biostatistics	
<i>College of Social Sciences and Humanities Skills Course List</i>		
INSH 5301	Introduction to Computational Statistics	
INSH 6300	Research Methods in the Social Sciences	
INSH 7400	Quantitative Analysis	
LPSC 7311	Strategizing Public Policy	
PPUA 5260	Ecological Economics	
PPUA 5261	Dynamic Modeling for Environmental Decision Making	
PPUA 5263	Geographic Information Systems for Urban and Regional Policy	
PPUA 6212	Research Toolkit for Urban and Regional Policy: Project Management	

PPUA 6213	Research Toolkit for Urban and Regional Policy: Data Visualization
PPUA 6216	Research Toolkit for Urban and Regional Policy: Grant Writing
PPUA 6502	Economic Analysis for Policy and Planning
PPUA 6505	Public Budgeting and Financial Management
PPUA 6506	Techniques of Policy Analysis
PPUA 6509	Techniques of Program Evaluation
PPUA 6525	Institutions and Public Policy
PPUA 7237	Advanced Spatial Analysis of Urban Systems

Electives

Complete five courses from the following list. At least one course must be taken from the College of Science Elective Course List and one courses from the College of Social Sciences and Humanities Elective Course List. Any skills course not taken to fulfill the skills courses requirement can be taken as an elective. Students may petition to enroll in other relevant graduate courses offered by other schools at Northeastern University.

COLLEGE OF SCIENCE ELECTIVE LIST

Code	Title	Hours
EEMB 5130 - EEMB 8984		
ENVR 5115 - ENVR 6900		

COLLEGE OF SOCIAL SCIENCES AND HUMANITIES ELECTIVE LIST

Code	Title	Hours
INSH 5302	Information Design and Visual Analytics	
INTL 5100	Climate and Development	
LPSC 7311	Strategizing Public Policy	
LPSC 7312	Cities, Sustainability, and Climate Change	
PHTH 5214	Environmental Health	
PHTH 5230	Global Health	
PPUA 5225	The Open Classroom: Public Debates on Public Policy	
PPUA 5230	Housing Policy	
PPUA 5234	Land Use and Urban Growth Policy	
PPUA 5249	Sustainable Urban Coastal Policy	
PPUA 5260	Ecological Economics	
PPUA 5262	Big Data for Cities	
PPUA 5264	Energy Democracy and Climate Resilience: Technology, Policy, and Social Change	
PPUA 5266	Urban Theory and Science	
PPUA 5268	International Environmental Policy	
PPUA 5270	Food Systems and Public Policy	
PPUA 5390	Special Topics in Public Policy and Urban Affairs	

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PPUA 6201	The 21st-Century City: Urban Opportunities and Challenges in a Global Context
PPUA 6505	Public Budgeting and Financial Management
PPUA 6506	Techniques of Policy Analysis
PPUA 6522	Administrative Ethics and Public Management
PPUA 6551	Nonprofit Organizations and Social Change
PPUA 6552	The Nonprofit Sector in Civil Society and Public Affairs
PPUA 6553	Nonprofit Financial Resource Development
PPUA 6862	Internship with Research
PPUA 6966	Practicum
PPUA 7346	Resilient Cities
PPUA 7673	Capstone in Public Policy and Urban Affairs
SOCL 7267	Environment, Health, and Society
SOCL 7287	Social Movements in Health

Program Credit/GPA Requirements

36 total semester hours required

Minimum 3.000 GPA required